

**LISTING OF THE CLAIMS:**

1. (Currently Amended) A method of adjusting the sensitivity of an optronic fuse system which comprises a transmitter, a receiver, an amplifier chain, and a sensor connected ahead of the receiver and of the amplifier chain; comprising ~~effecting in a single~~ calibration cycle, with the steps of:

- (a) measuring a signal level during operation of ~~the~~ the system; and
- (b) adjusting the sensitivity of the optronic fuse system by setting only the sensitivity of the sensor[.];
- (c) storing a gain factor which is dependent upon said measured signal level into a controller for setting the sensitivity of said sensor, said sensor comprising an avalanche-photodiode (APD), said avalanche-photodiode having a bias voltage which is set by the controller; and
- (d) implementing a temperature compensation during the operation of the optronic fuse system commencing from a working point in a temperature curve for the avalanche-photodiode which corresponds to a specified reference sensitivity.

2. (Currently Amended) A method according to Claim 1, wherein the adjusting of the optronic fuse system is obtained for ~~a medium measured value~~ the measured signal level from which there is derived a temperature compensation.

Claims 3 and 4 (Cancelled).

5. (Currently Amended) A method according to Claim [4] 1, wherein said bias voltage is set in dependence upon temperature.

Claim 6 (Cancelled).

7. (Currently Amended) A method according to Claim [4] 1, wherein said controller is loaded with an operating software system for the purpose of adjusting the optronic fuse system, through which said avalanche-photodiode is set to a ~~medium~~ the gain factor.

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